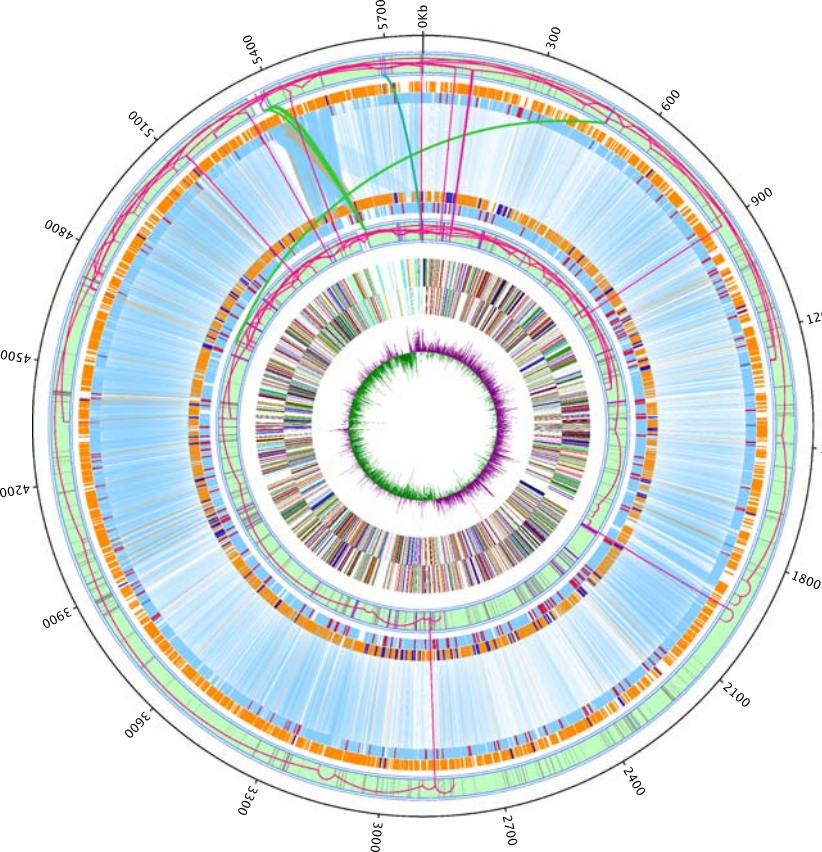




- Collinear
- Translocation
- Inversion
- Tran+Inver
- Insertion
- Deletion
- ComplexInDel
- Duplication
- Forward Chain
- Reverse Chain
- Forward CDS
- Reverse CDS
- Subjoin Forward CDS
- Subjoin Reverse CDS
- Acquired Forward CDS
- Acquired Reverse CDS

COG FUCTION:

INFORMATION STORAGE AND PROCESSING:

- Translation, ribosomal structure and biogenesis
- RNA processing and modification
- Transcription

CELLULAR PROCESSES AND SIGNALING:

- Replication, recombination and repair
- Chromatin structure and dynamics
- Cell cycle control, cell division, chromosome partitioning

CELLULAR PROCESSES AND SIGNALING:

- Nuclear structure
- Defense mechanisms
- Signal transduction mechanisms
- Cell wall/membrane/envelope biogenesis
- Cell motility
- Cytoskeleton

EXTRACELLULAR STRUCTURES

- Extracellular structures
- Intracellular trafficking, secretion, and vesicular transport
- Posttranslational modification, protein turnover, chaperones

METABOLISM:

- Energy production and conversion
- Carbohydrate transport and metabolism
- Amino acid transport and metabolism
- Nucleotide transport and metabolism
- Coenzyme transport and metabolism
- Lipid transport and metabolism
- Inorganic ion transport and metabolism
- Secondary metabolites biosynthesis, transport and catabolism

POORLY CHARACTERIZED:

- General function prediction only
- Function unknown